

Claims

1. Component consisting of at least two parts, preferably a mirror for vehicles, especially motor vehicles, the two parts of which are firmly joined together, at least in sections, along their edges
characterized in that the two parts (2, 4; 4') are joined by laser welding with the faces (12, 14) of their edges (7, 15) flush against one another.
2. Component according to claim 1, **characterized in that** the one part (2) is made of a laser-absorbing, weldable material.
3. Component according to claim 2, **characterized in that** the one part (2) is made of thermoplastic material, preferably pigmented with carbon.
4. Component according to one of claims 1 – 3, **characterized in that** the other part (4; 4') is made of a laser-permeable, weldable material.
5. Component according to claim 4, **characterized in that** the other part (4; 4') is made of thermoplastic material.
6. Component according to one of claims 1 – 5, **characterized in that** the faces (12, 14) of the two parts (2, 4; 4') are flat.

7. Component according to one of claims 1 – 6, **characterized in that** the two parts (2, 4; 4') have the same thickness at their contiguous edges (7, 15).
8. Component according to one of claims 1 – 7, **characterized in that** the other part (4; 4') has a web-like and/or approximately L-shaped cross-section.
9. Component according to claim 8, **characterized in that** the other, web-like part (4') is rounded off in an arc at its outer edge (4").
10. Component according to claim 8, **characterized in that** the two sides (7, 8) of the other, approximately L-shaped part (4) have different lengths.
11. Component according to claim 10, **characterized in that** the face (14) of the other part (4; 4') and/or the face (12) of its longer side (7) makes area contact with the edge (15) of the one part (2).
12. Method for producing the component according to one of claims 1 – 11, in which the two parts are placed contiguous to one another at their edges, **characterized in that** a laser beam (L) is directed through the one part (2, 4; 4') onto the contiguous, flush edges (12, 14) and is moved along this part (2, 4; 4') such that the contiguous edges (7, 15) are welded together.

13. Method according to claim 12, **characterized in that** the light beam (L) is moved from a rear side (18) of the one part (2) to the contiguous edges (7, 15).
14. Method for producing the component according to one of claims 1 – 11, in which the two parts are placed contiguous to one another at their edges,
characterized in that a laser beam (L) is directed through a third part (3), which reflects the laser beam (L) onto the contiguous, flush edges (7, 15) of the two other parts (2, 4; 4'), and in that the laser beam (L) is moved along the one part (2, 4; 4') such that the contiguous edges (7, 15) weld together.
15. Method according to claim 14, **characterized in that** the laser beam (L) is moved through the third part (3) such that it is reflected from the rear surface (17) thereof to the front surface (18) of the third part (3), and is reflected from there to the contiguous edges (7, 15).